

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A high-pressure discharge lamp with an asymmetrical discharge space (2) and/or an asymmetrical discharge vessel (1), wherein ~~the~~ a bottom surface (10, 11) that is lowermost in ~~the~~ an operational position of the lamp has a raised central first portion 10 which is surrounded by a relatively lowered second portion 11, whereby the discharge space (2) has a volume which is reduced by a given first factor in comparison with the volume of the discharge space of known mercury-containing discharge lamps, and wherein an obscuration of portions of ~~the~~ a luminous discharge arc (21) and/or of portions of ~~the~~ electrodes (3) by light-generating substances not evaporated in ~~the~~ an operational state is prevented in that ~~the~~ a quantity of the light-generating substances in the discharge space (2) is reduced by a second factor which is determined in dependence on ~~the~~ a value of the first factor and on ~~the~~ a distance, defined by the asymmetry, of the electrodes (3) to the bottom surface (10, 11) that is lowermost in the operational

position of the lamp, and wherein the volume of the discharge space  
| ~~(2)~~ is approximately 18  $\mu$ l.

2. (Currently Amended) A The high-pressure discharge lamp as  
| claimed in claim 1, wherein the discharge space ~~(2)~~ does not  
contain mercury.

3. (Canceled)

4. (Currently Amended) A The high-pressure discharge lamp as  
| claimed in ~~claim 3~~ claim 1, wherein the quantity of light-generating  
substances is approximately 200  $\mu$ g.

5. (Currently Amended) A high-pressure discharge lamp as claimed  
| in ~~claim 4~~ claim 1, wherein the bottom surface comprises a first  
portion ~~(10)~~ which is raised by approximately 1 mm with respect to  
a surrounding second portion ~~(11)~~.

6. (Currently Amended) A The high-pressure discharge lamp as  
| claimed in claim 1, wherein the discharge space ~~(2)~~ contains a rare  
gas.

7. (Currently Amended) A ~~The~~ high-pressure discharge lamp as claimed in ~~claim 6~~claim 1, wherein the ~~rare gas is~~discharge space contains xenon with a xenon cold pressure of between approximately 8 bar and approximately 20 bar.

8. (Original) A lighting unit with a high-pressure gas discharge lamp as claimed in claim 1.

9. (Currently Amended) A ~~The~~ high-pressure discharge lamp as claimed in ~~claim 7~~claim 1, wherein the discharge space contains xenon with a xenon cold pressure is of between approximately 10 bar and approximately 15 bar.

10. (New) A high-pressure discharge lamp with an asymmetrical discharge space and/or an asymmetrical discharge vessel, wherein a bottom surface that is lowermost in an operational position of the lamp has a raised central first portion which is surrounded by a relatively lowered second portion, whereby the discharge space has a volume which is reduced by a given first factor in comparison with the volume of the discharge space of known mercury-containing

discharge lamps, and wherein an obscuration of portions of a luminous discharge arc and/or of portions of electrodes by light-generating substances not evaporated in an operational state is prevented in that a quantity of the light-generating substances in the discharge space is reduced by a second factor which is determined in dependence on a value of the first factor and on a distance, defined by the asymmetry, of the electrodes to the bottom surface that is lowermost in the operational position of the lamp.

11. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space does not contain mercury.

12. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the volume of the discharge space is approximately 18  $\mu$ l.

13. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the quantity of light-generating substances is approximately 200  $\mu$ g.

14. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the bottom surface comprises a first portion which is

raised by approximately 1 mm with respect to a surrounding second portion.

15. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains a rare gas.

16. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains xenon with a xenon cold pressure of between approximately 8 bar and approximately 20 bar.

17. (New) A lighting unit with a high-pressure gas discharge lamp as claimed in claim 10.

18. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains xenon with a cold pressure of between approximately 10 bar and approximately 15 bar.